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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR YOSHIHIDE HAYASHIZAKI 024705-077 6838 09/03/1999 09/254,344 EXAMINER 03/23/2004 7590 **BURNS DOANE SWECKER & MATHIS** HUTSON, RICHARD G PO BOX 1404 ART UNIT PAPER NUMBER ALEXANDRIA, VA 223131404 1652

DATE MAILED: 03/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/254,344	HAYASHIZAKI ET AL.
	Examiner	Art Unit
	Richard G Hutson	1652
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re within the statutory minimum of thirty will apply and will expire SIX (6) MON cause the application to become AB.	eply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 02 Oc	<u>ctober 2003</u> .	· •
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 11-23 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 11.12 and 18-23 is/are allowed. 6) ☐ Claim(s) 13-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to be drawing(s) be held in abeyandion is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the priorical statement of the prioric</li></ul>	s have been received. s have been received in Aprity documents have been I (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)		ummary (PTO-413) )/Mail Date
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date		formal Patent Application (PTO-152)

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## **DETAILED ACTION**

Applicants amendment of the specification and claims 18-23, in the paper of 10/2/2003, is acknowledged. Claims 11-23, are still at issue and are present for examination.

Applicants' arguments filed on 10/2/2003, have been fully considered and are deemed to be persuasive to overcome some of the rejections previously applied.

Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

## Specification

The disclosure is objected to because of the following informalities:

Applicants disclosure is objected to because applicants specification at page 9, lines 15-31, appear to define a "wild type RNA polymerase" as including not only naturally occurring thermostable RNA polymerases, but also naturally occurring RNA polymerases that have been artificially modified (i.e. having substitution, insertion and/or deletion of amino acids) in order to impart thermostability. This is contrary to the accepted meaning of "wild type" as used by one skilled in the art. One of skill in the art would not interpret the term "wild type" polymerase to include polymerases which were artificially modified and thus did not occur naturally.

Appropriate correction is required.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 13, 14 and 16 (claims 15 and 17 dependent on) are indefinite in that they are drawn to a "wild type T7 polymerase". As discussed above, under the objections to the specification, applicants use of the term "wild type" is confusing in that it is not consistent with the use of this term in the art.

Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "wild type", in claims 13, 14 and 16, is used by the claims to mean "naturally occurring as well as artificially modified", while the accepted meaning is "naturally occurring." The term is indefinite because the meaning of this term as defined by applicants specification (page 9) is inconsistent with its meaning as defined by the art.

Further it is noted in claims 12, 19, 21 and 23 that the recitation "...has a further substitution, insertion, or deletion of **an** amino acid other than the..." is interpreted as

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"...has a further substitution, insertion, or deletion of **a single** amino acid other than the...", thus necessitating that the claimed polymerase has an additional mutation other then that specifically defined in the claim, wherein the additional mutation is selected from the group consisting of a single amino acid substitution, a single amino acid insertion, or a single amino acid deletion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G Hutson whose telephone number is (571) 272-0930. The examiner can normally be reached on 7:30 am to 4:00 pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on (571) 272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Richard G Hutson, Ph.D.

Primary Examiner Art Unit 1652

rgh 3/19/2004